



# Current Addendums

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

Revision: April 2005  
To: Section 2.5  
Date: April 08, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### General Quantities – Section 2.5

<u>Page</u>	<u>Date</u>	<u>Description</u>
1-3	March 2005	Added pay item for Seal Coat, Grade C.
1-4	Jan. 2005	No change printed on back of 1-3.
1-7	Jan. 2005	Updated to show pay items that are now in effect.
1-8	Jan. 2005	No change printed on back of 1-7.
1-9	Jan. 2005	Updated to show pay items that are now in effect.
1-10	Jan. 2005	No change printed on back of 1-9.
1-13	Jan. 2005	Updated to show pay items that are now in effect.
1-14	Jan. 2005	No change printed on back of 1-13.
1-15	March 2005	Updated to show pay items that are now in effect.
1-16	Jan. 2005	Updated to show pay items that are now in effect.
1-17	March 2005	Updated to show pay items that are now in effect.
1-18	Jan. 2005	Updated to show pay items that are now in effect.
2.1-7	Jan. 2005	Revised note for Seal Coat to add Grade C.
2.1-8	Jan. 2005	No change printed on back of 2.1-7.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

Revision: April 2005  
To: Section 3.30  
Date: April 08, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### General Superstructure – Section 3.30

<u>Page</u>	<u>Date</u>	<u>Description</u>
1.5-7	March 2005	Added deck cracking check note.
1.5-8	Jan. 2005	No change printed on back of 1.5-7.
1.7-4	March 2005	No change printed on front of 1.7-5.
1.7-5	March 2005	Corrected 9" slab to 8 ½" slab.
1.7-6	March 2005	Corrected 9" slab to 8 ½" slab.
1.8-1	Jan. 2005	No change printed on back of 1.7-6.
2.2-1	March 2005	No change printed on front of 2.2-2.
2.2-2	Jan. 2005	Corrected drafting error.
2.2-3	March 2005	Corrected bar callout "S" to "P1".
2.2-4	March 2005	No change printed on back of 2.2-3.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

Revision: April 2005  
To: Section 3.32  
Date: April 08, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Protective Barricades – Section 3.32

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.3-1	Jan. 2005	No change printed on front of 2.3-2.
2.3-2	Jan. 2005	Corrected 9" slab to 8 ½" slab.
2.9-1	Jan. 2005	No change printed on front of 2.10-1.
2.10-1	Jan. 2005	Corrected 9" slab to 8 ½" slab.
2.11-1	Jan. 2005	No change printed on front of 3.1-1.
3.1-1	March 2005	Corrected reference page number.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

Revision: April 2005  
To: Section 3.35  
Date: April 08, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Expansion Devices – Section 3.35

<u>Page</u>	<u>Date</u>	<u>Description</u>
3.4-2	Jan. 2005	No change printed on front of 3.5-1.
3.5-1	Jan. 2005	Corrected 9" slab to 8 ½" slab.
5.9-1	Jan. 2005	Corrected 9" slab to 8 ½" slab.
6.1-1	Jan. 2005	No change printed on back of 5.9-1.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

Revision: April 2005  
To: Section 3.76  
Date: April 08, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Concrete Pile Cap Non-Integral End Bents – Section 3.76

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.3-1	Jan. 2005	No change printed on front of 2.3-2.
2.3-2	Jan. 2005	Revised live load surcharge information.
3.1-1	Jan. 2005	No change printed on front of 3.2-1.
3.2-1	Jan. 2005	Corrected layout length.
3.2-2	Jan. 2005	Corrected layout length.
3.2-3	Jan. 2005	Corrected layout length.
3.2-8	Jan. 2005	Corrected drafting error.
3.3-1	Jan. 2005	Revised wing brace details.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

Revision: April 2005  
To: Section 3.77  
Date: April 08, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Concrete Pile Cap Integral End Bents – Section 3.77

<u>Page</u>	<u>Date</u>	<u>Description</u>
3.1-1	Jan. 2005	No change printed on front of 3.2-1.
3.2-1	Jan. 2005	Revised wing brace details.
3.3-1	Jan. 2005	Corrected layout length.
3.3-2	Jan. 2005	Corrected layout length.
3.4-1	Jan. 2005	Corrected layout length.
3.4-2	Jan. 2005	Corrected layout length.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

Revision: April 2005  
To: Section 4.0  
Date: April 08, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Office Notes – Section 4.0

<u>Page</u>	<u>Date</u>	<u>Description</u>
H1-A	Jan. 2005	No change printed on front of H1-B.
H1-B	Jan. 2005	Changed “50#” to “30#” roofing felt on note H1.10.
J1-A	Jan. 2005	Added bond breaker information to note J1-13.
J1-B	Jan. 2005	No change printed on the back of J1-A.

# **DIVISION OF BRIDGE**

## **LRFD Bridge Design Guidelines**

**Revision:** April 2005  
**To:** Section 8.1  
**Date:** April 08, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Preliminary Design – Section 8.1**

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.16-8	Jan. 2005	No change printed on front of 2.16-9.
2.16-9	Jan. 2005	Added “ATT:” and “Route” to letter format.
2.16-10	Jan. 2005	Added “ATT:” and “Route” to letter format.
2.17-1	Jan. 2005	No change printed on the back of 2.16-10.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

Revision: 3.31-04\_21\_05  
To: Section 3.31  
Date: June 06, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Bearings – Section 3.31

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.5-4	Jan. 2005	No change printed on front of 2.5-4.1
2.5-4.1	June 2005	Added details showing dimensions used on chart on page 2.5-4
Blank		Printed on front of page 3.1-1
3.1-1	Jan. 2005	No change printed on back of Blank

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** June 2005  
**To:** Section 4.0  
**Date:** June 06, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Office Notes – Section 4.0

<u>Page</u>	<u>Date</u>	<u>Description</u>
H10-A2	Jan. 2005	Added notes H10.13 thru H10.18 (These were removed from H10-C and renamed.) Underlined “horizontal” in note H10.12.1 to show it can be omitted if not applicable.
H10-B	March 2005	Revised note H10.86 for clarification.
H10-C	Jan. 2005	Removed notes H10.92 thru H10.98.
H11-A1	Jan. 2005	No change printed on the back of H10-C.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** May 13, 2005  
**To:** Section 8.1  
**Date:** June 06, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Preliminary Design – Section 8.1**

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.14-1	Jan. 2005	No change printed on front of 2.15-1.
2.15-1	Jan. 2005	Added Preliminary Cost Estimate should be rounded up to nearest thousand dollars.
2.15-1.1	Jan. 2005	Corrected spelling error
2.16-1	Jan. 2005	No change printed on the back of 2.15-1.1.
2.16-10	Jan. 2005	Revised format removed from----- (Duplication)
2.17-1	Jan. 2005	No change printed on back of 2.16-10
2.29-3	Jan. 2005	Added information for request for Final Designer
2.29-4	June 2005	No change printed on back of 2.29-3
3.3-4	Jan. 2005	No change printed on front of 3.3-5
3.3-5	Jan. 2005	Revised sheet to current practice

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** June, 2005  
**To:** Section 8.1  
**Date:** June 06, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Preliminary Design – Section 8.1**

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.17-4	Jan. 2005	No change printed on front of 2.18-1.
2.18-1	Jan. 2005	Added note to consider encasing piling in concrete.
2.19	Jan. 2005	No change printed on the front of 2.19-1.
2.19-1	Jan. 2005	Added choice of drilled shaft to type of footings.
2.21-6	Jan. 2005	No change printed on the front of 2.22-1
2.22-1	Jan. 2005	Added information for Design Layout sheet.
2.25-1	Jan. 2005	Changed contact to Assistant State Bridge Engineer.
2.26-1	June 2005	No change printed on back of 2.25-1

# **DIVISION OF BRIDGE**

## **LRFD Bridge Design Guidelines**

**Revision:** July 2005  
**To:** Section 4.0 – Office Notes  
**Date:** July 22, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Office Notes – Section 4.0**

<u>Page</u>	<u>Date</u>	<u>Description</u>
H2-C3	Jan. 2005	No change printed on front of H2-C4.
H2-C4	Jan. 2005	Revised note H2.68 to coordinate with Pay Items.

# **DIVISION OF BRIDGE**

## **LRFD Bridge Design Guidelines**

**Revision:** Aug. 2005  
**To:** Section 4.0 – Office Notes  
**Date:** Aug. 5, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Office Notes – Section 4.0**

<u>Page</u>	<u>Date</u>	<u>Description</u>
A1-A	March 2005	Updated Note A1.1 to include 2005 Interims.
A1-B	Jan. 2005	No change printed on back of A1-A.

# **DIVISION OF BRIDGE**

## **BRIDGE MANUAL ADDENDUM**

**Revision:** Sept. 2005  
**To:** Section 1.2 - Loads  
**Date:** Sept 01, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Loads – Section 1.2**

<u>Page</u>	<u>Date</u>	<u>Description</u>
4.2-1	Jan. 2005	This revision is implementing following AASHTO for deflection criteria.
4.3-1	Jan. 2005	No change printed on back of 4.2-1.

# DIVISION OF BRIDGE

## BRIDGE MANUAL ADDENDUM

Revision: Sept. 2005  
To: Section 3.43 - Steel Superstructure  
Date: Sept 01, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Steel Superstructure – Section 3.43

<u>Page</u>	<u>Date</u>	<u>Description</u>
4.5-1	Jan. 2005	No change reprinted on front of 5.1-1
5.1-1	Jan. 2005	This revision is implementing the use of welding in lieu of the current clip angle connection detail at the girder tension flange.
5.1-4	Jan. 2005	This revision is implementing the use of welding in lieu of the current clip angle connection detail at the girder tension flange.
5.2-1	Jan. 2005	This revision is implementing the use of welding in lieu of the current clip angle connection detail at the girder tension flange.
5.2-2	Jan. 2005	This revision is implementing the use of welding in lieu of the current clip angle connection detail at the girder tension flange.
5.2-3	March 2005	No change printed on back of 5.2-2

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** Sept. 21, 2005  
**To:** Section 8.1  
**Date:** Oct 07, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Preliminary Design – Section 8.1**

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.14-1	Jan. 2005	No Change printed on front of 2.14-1.
2.15-1	June 2005	Changed Average Prices per Square foot of Deck.
2.16-2	Jan. 2005	Revised number of copies from three to one for Bridge Memo.
2.16-3	Jan. 2005	Revised number of copies from three to one for Bridge Memo.
2.16-4	Jan. 2005	Revised Senior Engineer to Bridge Location and Layout Designer And changed number of copies from three to one.
2.16-5	Jan. 2005	No change printed on back of 2.16-4.
2.16-8	Jan. 2005	No change printed on front of 2.16-9.
2.16-9	April 2005	Reworded note (signed).
2.16-10	April 2005	Reworded note (signed).
2.17-1	Jan. 2005	No change printed on back of 2.16-10.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

Revision: Oct. 2005  
To: Section 2.5  
Date: Oct. 11, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### General Quantities – Section 2.5

<u>Page</u>	<u>Date</u>	<u>Description</u>
2-1.3	Jan. 2005	No change printed on front of 2.1-4.
2-1.4	Jan. 2005	Removed “If the deck is removed, the top of the top flange shall be included in the area computations.” because it conflicted with Sec 216.50.

# **DIVISION OF BRIDGE**

## **LRFD Bridge Design Guidelines**

**Revision:** Oct. 2005  
**To:** Section 4.0 – Office Notes  
**Date:** Oct. 14, 2005

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Office Notes – Section 4.0**

<u>Page</u>	<u>Date</u>	<u>Description</u>
J1-A	April 2005	Removed “as outlined in the Project Special Provisions” from note J1.9.
J1-B	Jan. 2005	Added “(Responsibility of Bridge Division)” above note J1.15.

# **DIVISION OF BRIDGE**

## **BRIDGE DESIGN GUIDELINES**

**Revision:** 1.2-11/15/05  
**To:** Section 1.2  
**Date:** Jan. 03, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Loads – Section 1.2**

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.3-1	Jan. 2005	Missing values for base pressure for transverse wind load to substructure from superstructure. Gave designer more flexibility for base pressures at design elevations above 30'
2.3-2	Jan. 2005	No change printed on back of 2.3-1.
2.3-3	Jan. 2005	Wind on live load application point changed from 6 ft. above slab to top of slab.
2.4-1	Jan. 2005	No change printed on back of 2.3-3
2.5-1	Jan. 2005	Braking load application point changed from 6 ft. above slab to top of slab.
2.5-2	Jan. 2005	No change prited on back of 2.5-1.

# **DIVISION OF BRIDGE**

## **BRIDGE DESIGN GUIDELINES**

**Revision:** 1.3-11/15/05  
**To:** Section 1.3  
**Date:** Jan. 03, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Design Properties – Section 1.3**

<u>Page</u>	<u>Date</u>	<u>Description</u>
i-1		Name change for section 1.1
Back		Blank
1.1-1	Jan. 2005	Modulus of elasticity values corrected for concrete columns and C.I.P. piles. Removed values to coincide with classes of reinforced concrete given in LRGD DG 1.4.2.1-1.
1.2-1	Jan. 2005	No change printed on back of 1.1-1.

# DIVISION OF BRIDGE

## BRIDGE DESIGN GUIDELINES

**Revision:** 3.71-11/15/05  
**To:** Section 3.71  
**Date:** Jan. 03, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Open Concrete Int. Bents – Section 3.71**

<u>Page</u>	<u>Date</u>	<u>Description</u>
1.7-3	Jan. 2005	No change printed on front of 2.1-1.
2.1-1	Jan. 2005	Added clarification for temperature load factors that is not given in the table referenced.
2.1-2	Jan. 2005	Part of page 2.1-1 migrated to 2.1-2.
2.2-1	Jan. 2005	No change printed on back of 2.1-2..
2.2-2	Jan. 2005	Removed wording for collision design that is repeated from section 1.2.2.5-2.
2.2-3	Jan. 2005	Page eliminated - Blank
2.3-1	Jan. 2005	Removed maximum reinforcement check to reflect 2006 interims.
2.3-2	Jan. 2005	Removed maximum reinforcement check to reflect 2006 interims. Added clarification for bottom of column design.
2.3-3	Jan. 2005	Format changes.
2.3-4	Jan. 2005	Format changes.
2.4-1	Jan. 2005	No change printed on front of 2.4-2.
2.4-2	Jan. 2005	Reorganized. Corrected procedure for moment magnification. Other corrections to variables.
2.4-3	Jan. 2005	Reorganized. Corrected procedure for moment magnification.
2.4-4	Jan. 2005	Part of page 2.4-3 migrated to 2.4-4

# DIVISION OF BRIDGES

## BRIDGE DESIGN GUIDELINES

Revision: 8.1-12/05/06  
To: Preliminary Design

Date: Jan. 03, 2006

The following revised sheets are to be inserted into the LRFD Design Guidelines Section 8.1.  
This cover sheet is for information only and need not be retained.

### Preliminary Design

<u>Page</u>	<u>Date</u>	<u>Description</u>
3.3-6	Jan. 2005	No change printed on front of 3.4-1
3.4-1 thru 3.4-9	Jan. 2005	Replace old checklist with new ones

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** Jan. 2006  
**To:** Section 4.0 – Office Notes  
**Date:** Jan. 03, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Office Notes – Section 4.0

<u>Page</u>	<u>Date</u>	<u>Description</u>
B3-A	Jan. 2005	B3.7 New note (diamond grooving).
B3-B	Jan. 2005	No change reprinted on back of B3-A.
E5-B	Jan. 2005	No change reprinted on front of E6-A.
E6-A	Jan. 2005	Clarification on note E6.3 (coring).
H10-A2	June 2005	H10.16 revised to match note H10.86.
H10-B	June 2005	No change reprinted on back of H10-A2.

# DIVISION OF BRIDGES

## BRIDGE DESIGN GUIDELINES

**Revision:** Jan. 18, 2006  
**To:** Section 3.43 - Steel Superstructure  
**Date:** March 01, 2006

The following revised sheets are to be inserted into the LRFD Design Guidelines Section 8.1.  
This cover sheet is for information only and need not be retained.

### **Steel Superstructure – Section 3.43**

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.3-1	Jan. 2005	No change printed on front of 2.3-2
2.3-2	Jan. 2005	Change Maximum intermediate diaphragm spacing from 15'-0" to 25'-0"
3.4-1	Jan. 2005	Added note to alert designer flange width is less than 12"
3.4-2	Jan. 2005	Added note to alert designer flange width is less than 12"
3.4-3	Jan. 2005	Added note to alert designer flange width is less than 12"
3.4-4	Jan. 2005	No change printed on back of 3.4-3
3.4-5	Jan. 2005	No change printed on front of 3.4-6
3.4-6	Jan. 2005	Added note to alert designer flange width is less than 12"

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** Jan. 18, 2006  
**To:** Section 3.71 - Open Concrete Int. Bents  
**Date:** Mar. 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Open Concrete Int. Bents – Section 3.71**

<u>Page</u>	<u>Date</u>	<u>Description</u>
3.6-1	Feb. 1999	No change printed on front of 4.1-1
4.1-1	Dec. 1999	Revised notes regarding keyed construction joints in bearing beam and tie beam

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** March 2006  
**To:** Section 4.0 – Office Notes  
**Date:** March 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Office Notes – Section 4.0

<u>Page</u>	<u>Date</u>	<u>Description</u>
A1-A	Aug. 2005	Removed Fatigue Stress Cases from note A1.1 LRFD.
A1-B	Jan. 2005	No change reprinted on back of A1-A.
I1-C	Jan. 2005	No change reprinted on front of I2-A.
I2-A	Jan. 2006	Clarification for figuring pullout strength of resin anchor systems.

# DIVISION OF BRIDGES

## BRIDGE DESIGN GUIDELINES

**Revision:** March, 2006  
**To:** Section 8.1 - Preliminary Design  
**Date:** Mar. 01, 2006

The following revised sheets are to be inserted into the LRFD Design Guidelines Section 8.1.  
This cover sheet is for information only and need not be retained.

### **Preliminary Design - Section 8.1**

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.30-1	Jan. 2005	Added note regarding FHWA submittal
2.30-2	Jan. 2005	No change printed on back of 2.30-1

# DIVISION OF BRIDGES

## BRIDGE DESIGN GUIDELINES

Revision: March 2006  
To: Section 2.4 -Standard Details

Date: May 01, 2006

The following revised sheets are to be inserted into the LRFD Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Standard Details – Section 2.4

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.2-1	Jan 2005	No change printed on front of 3.1-1
3.1-1	Jan. 2005	Added new Hydrologic Tables
3.1-2	New	New sheet due to new tables

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** May 2006  
**To:** Section 3.55 – Prestressed Concrete I-Girders  
**Date:** May 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Prestressed Concrete I-Girders – Section 3.55**

<u>Page</u>	<u>Date</u>	<u>Description</u>
1.1-1	Jan. 2005	Corrected Strand area from $A_{ps} = 0.215 \text{ in}^2$ to $A_{ps} = 0.217 \text{ in}^2$ .
1.2-1	March 2005	No change reprinted on back of 1.1-1.

# DIVISION OF BRIDGES

## BRIDGE DESIGN GUIDELINES

**Revision:** May, 2006  
**To:** Section 8.1 - Preliminary Design  
**Date:** May 01, 2006

The following revised sheets are to be inserted into the LRFD Design Guidelines Section 8.1.  
This cover sheet is for information only and need not be retained.

### **Preliminary Design - Section 8.1**

<u>Page</u>	<u>Date</u>	<u>Description</u>
4.4-1	Jan. 2005	No change printed on front of 4.4-2
4.4-2	Jan. 2005	Changed Wall Cost per Linear Foot

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** May 2006  
**To:** Section 3.76 – Concrete Pile Cap Non-Integral End Bents  
**Date:** May 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Concrete Pile Cap Non-Integral End Bents – Section 3.76

<u>Page</u>	<u>Date</u>	<u>Description</u>
3.2-2	April 2005	Removed “Point of rotation” call out.
3.2-3	April 2005	Removed “Rotate wings at front face of backwall” call out.
3.2-8	April 2005	No change reprinted on front of 3.3-1.
3.3-1	April 2005	Revised dimensioning wing fillet to fill face. Removed “Working Point” call out.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** May 2006  
**To:** Section 3.77 – Concrete Pile Cap Integral End Bents  
**Date:** May 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Concrete Pile Cap Integral End Bents – Section 3.77

<u>Page</u>	<u>Date</u>	<u>Description</u>
3.1-1	April 2005	No change reprinted on front of 3.2-1.
3.2-1	April 2005	Revised dimensioning wing fillet to fill face. Removed “Working Point” call out.
3.3-1	April 2005	No change reprinted on front of 3.3-2.
3.3-2	April 2005	Removed “Point of rotation” call out.
3.4-1	April 2005	No change reprinted on front of 3.4-2.
3.4-2	April 2005	Removed “Point of rotation” call out.

# **DIVISION OF BRIDGE**

## **LRFD Bridge Design Guidelines**

**Revision:** May 2006  
**To:** Section 4.0 – Office Notes  
**Date:** May 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Office Notes – Section 4.0**

<u>Page</u>	<u>Date</u>	<u>Description</u>
B3-C1	Jan. 2005	Added note B3.24.
B3-C2	Jan. 2005	No change reprinted on back of B3-C1.

# DIVISION OF BRIDGES

## LRFD BRIDGE DESIGN GUIDELINES

**Revision:** May, 2006  
**To:** Section 8.1 - Preliminary Design  
**Date:** May 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Preliminary Design - Section 8.1**

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.16-8	Jan. 2005	No change printed on the front of 2.16-9.
2.16-9	Oct. 2005	Generalized CC/ATT:
2.30-1	March 2006	Clarified documentation with FHWA direction.
2.30-2	Jan. 2005	No change printed on the back of 2.30-1.

# **DIVISION OF BRIDGE**

## **LRFD Bridge Design Guidelines**

**Revision:** June 2006  
**To:** Section 3.35 – Expansion Devices  
**Date:** June 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Expansion Devices – Section 3.35**

<u>Page</u>	<u>Date</u>	<u>Description</u>
5.5-1	Jan. 2005	Corrected drafting error on backgouge weld symbol.
5.6-1	Jan. 2005	No change reprinted on back of 5.5-1.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** June 2006  
**To:** Section 4.0 – Office Notes  
**Date:** June 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Office Notes – Section 4.0

<u>Page</u>	<u>Date</u>	<u>Description</u>
A4-D	Jan. 2005	No change reprinted on front of A5-A.
A5-A	Jan. 2005	Clarified note A5.2 concerning traffic handling.

# **DIVISION OF BRIDGE**

## **LRFD Bridge Design Guidelines**

**Revision:** June 2006  
**To:** Section 1.3 – Design Properties  
**Date:** June 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Design Properties – Section 1.3**

<u>Page</u>	<u>Date</u>	<u>Description</u>
1.2-2	March 2005	No change reprinted on front of 1.2-3.
1.2-3	March 2005	Corrected error in equation.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** June 2006  
**To:** Section 3.55 – Prestressed Concrete I-Girders  
**Date:** June 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Prestressed Concrete I-Girders – Section 3.55**

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.5-4	Jan. 2005	No change printed on front of 3.1-1.
3.1-1	Jan. 2005	Coordinated with Standard Library drawings.

# **DIVISION OF BRIDGE**

## **LRFD Bridge Design Guidelines**

**Revision:** June 2006 A  
**To:** Section 4.0 – Office Notes  
**Date:** June 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Office Notes – Section 4.0**

<u>Page</u>	<u>Date</u>	<u>Description</u>
H5-A	Jan. 2005	Clarification for weld approval method, added note H5-9.
H5-B	Jan. 2005	Clarification for weld approval method, added note H5-24.

# DIVISION OF BRIDGES

## LRFD BRIDGE DESIGN GUIDELINES

**Revision:** July 2006  
**To:** Section 8.1 - Preliminary Design  
**Date:** July 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Preliminary Design - Section 8.1**

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.15-1.1	Oct.. 2005	No change printed on the front of 2.16-1.
2.16-1	Jan. 2005	Clarified notes 11 and 12 for Hydrologic data.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

Revision: Aug. 2006  
To: Section 3.55 – Prestressed Concrete I-Girders  
Date: Aug. 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Prestressed Concrete I-Girders – Section 3.55**

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.2-1	Jan. 2005	Additional commentary and clarification of $f_{pj}$ .
2.2-2	Jan. 2005	Page layout change due to change on page 2.2-1.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** Aug. 2006  
**To:** Section 3.71 – Open Concrete Intermediate Bents and Piers  
**Date:** Aug. 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Open Concrete Intermediate Bents and Piers – Section 3.71**

<u>Page</u>	<u>Date</u>	<u>Description</u>
1.7-3	Jan. 2005	No change reprinted on front of 2.1-1.
2.1-1	Jan. 2006	Removed “Fatigue” Limit State.
2.3-1	Jan. 2006	Commentary for fatigue design.
2.3-2	Jan. 2006	No change reprinted on back of 2.3-1.

# DIVISION OF BRIDGES

## LRFD BRIDGE DESIGN GUIDELINES

**Revision:** Aug. 2006  
**To:** Section 8.1 - Preliminary Design  
**Date:** Aug. 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Preliminary Design - Section 8.1**

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.13-1	Jan. 2005	Increase rock blanket thickness to 1'-6". (On the Type 2 rock blanket, 60% of the rock must have a 1 cubic foot volume. A sphere of that volume has a 1.25 foot diameter. The Rock Blanket article from the PDM gives a range of 1.5 to 3.0 feet of thickness. If current 1 foot thick blanket for bridges over railroads is requested, a different rock size would need to be specified. The higher number is used to protect against moving water so 1.5 feet would normally be used on overpasses.)
2.13-2	Jan. 2005	No change printed on the back of 2.13-1.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

Revision: Oct. 2006  
To: Section 3.31 – Bearings  
Date: Oct. 02, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Bearings – Section 3.31

<u>Page</u>	<u>Date</u>	<u>Description</u>
Blank		This page intentionally left blank.
3.1-1	Jan. 2005	Clarified min. distance between bolts and neoprene pad.
3.2-1	Jan. 2005	Clarified min. distance between bolts and neoprene pad.
3.2-2	Jan. 2005	Clarified min. distance between bolts and neoprene pad.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

Revision: Oct. 2006  
To: Section 3.43 – Steel Superstructure  
Date: Oct. 02, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Steel Superstructure – Section 3.43

<u>Page</u>	<u>Date</u>	<u>Description</u>
1.1-1	Jan. 2005	Included AASHTO number for shear connector material.
1.2-1	Jan. 2005	No change reprinted on back of 1.1-1.
4.2-1	March 2005	1 ¼" diameter shear connectors removed from manual. (They may continue to be shown as an alternate on plans but discussion with project manager or liaison is required due to the 2 for 1 substitution.)
Blank		No change.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** Oct 2006  
**To:** Section 3.77 – Concrete Pile Cap Integral End Bents  
**Date:** Oct. 02, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Concrete Pile Cap Integral End Bents – Section 3.77

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.1-2	Jan. 2005	No change reprinted on front of 2.2-1.
2.2-1	Jan. 2005	Delete wording that was repeated at another location in the Bridge Design Guidelines.
2.3-1	Jan. 2005	No change reprinted on front of 2.4-1.
2.4-1	Jan. 2005	Reminder to check bar size and spacing.
2.4-2	Jan. 2005	Delete wording that was repeated at another location in the Bridge Design Guidelines.
2.5-1	Jan. 2005	No change reprinted on back of 2.4-2.
4.3-2	Jan. 2005	No change printed on front of 5.1-1.
5.1-1	Jan. 2005	Clarification of equation for size of slotted hole.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** Oct. 2006  
**To:** Section 3.82 – Spread Footings  
**Date:** Oct. 02, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Spread Footings – Section 3.82

<u>Page</u>	<u>Date</u>	<u>Description</u>
1.1-1	Jan. 2005	Added, "Foundation should be initially sized for Service Limit State" and added information.
1.2-1	Jan. 2005	Added information for footing depths greater than 36 inches.
2.1-1	Jan. 2005	Added Service Limit check information.
2.2-1	Jan. 2005	Added information about $\phi = 0.45$
2.3-3	Jan. 2005	No change printed on front of 2.4-1
2.4-1	Jan. 2005	Added Crack Control information.
2.4-2		New sheet, added Crack Control information.
3.1-1	Jan. 2005	Added information for footing depths greater than 36 inches.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

Revision: Oct. 2006  
To: Section 4.0 – Office Notes  
Date: Oct. 02, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Office Notes – Section 4.0

<u>Page</u>	<u>Date</u>	<u>Description</u>
H7-A	Jan. 2005	No change reprinted on front of H9-A1.
H9-A1	Jan. 2005	Added “deviates <b>not</b> more than” to note H9.5.

# DIVISION OF BRIDGES

## LRFD BRIDGE DESIGN GUIDELINES

**Revision:** Aug. 2006  
**To:** Section 8.1 - Preliminary Design  
**Date:** Aug. 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### **Preliminary Design - Section 8.1**

<u>Page</u>	<u>Date</u>	<u>Description</u>
2.14-1	Jan. 2005	No change printed on front of 2.15-1
2.15-1	Oct. 2005	Corrected calculation of reinforcing steel for bridges and box culverts.
2.15-2		No change of information. Format change only.
2.16-1	July 2006	No change printed on back of 2.15-2.

# DIVISION OF BRIDGE

## LRFD Bridge Design Guidelines

**Revision:** Nov. 2006  
**To:** Section 4.0 – Office Notes  
**Date:** Nov. 01, 2006

The following revised sheets are to be inserted into the LRFD Bridge Design Guidelines.  
This cover sheet is for information only and need not be retained.

### Office Notes – Section 4.0

<u>Page</u>	<u>Date</u>	<u>Description</u>
E5-B	Jan. 2005	No change reprinted on front of E6-A.
E6-A	Jan. 2006	Added note E6.6.